BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at 4th, 5th and 6th Cross Roads and Surrounding ares in AK Colony Doddabommasandra in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

Estimate Cost: 2500000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Drain Desilting								
	Muneshwara Block 1st Cross		2	75.00	0.45	0.35	23.63		
	Muneshwara Block 2nd Cross		2	75.00	0.45	0.35	23.63		
	Muneshwara Block 3rd Cross		2	75.00	0.45	0.35	23.63		
	Muneshwara Block 4th Cross		2	98.00	0.45	0.40	35.28		
	Cross Road		2	40.00	0.45	0.40	14.40		
	Muneshwara Block 5th Cross		2	93.00	0.45	0.40	33.48		
	For Road Work								
	Muneshwara Block 1st Cross		1	75.00	1.00	0.90	67.50		
	Muneshwara Block 2nd Cross		1	75.00	1.00	0.90	67.50		
	Muneshwara Block 3rd Cross		1	75.00	1.00	0.90	67.50		
	Muneshwara Block 4th Cross		1	98.00	1.00	0.90	88.20		
	Cross Road		1	40.00	1.00	0.90	36.00		
	Muneshwara Block 5th Cross		1	93.00	1.00	0.90	83.70		
	Basic Rate	82.00					**564.44**	199.36	**112528.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 **Page No. 148 / Item No. 19.60, PWD SR 2016-17**	cum							
	Muneshwara Block 1st Cross		1	75.00	1.00	0.60	45.00		
	Muneshwara Block 2nd Cross		1	75.00	1.00	0.60	45.00		
	Muneshwara Block 3rd Cross		1	75.00	1.00	0.60	45.00		
	Muneshwara Block 4th Cross		1	98.00	1.00	0.60	58.80		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Cross Road		1	40.00	1.00	0.60	24.00		
	Muneshwara Block 5th Cross		1	93.00	1.00	0.60	55.80		
							273.60	320.12	**87585.00**
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	**320.12**							
3	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material **Page No. 154, Item No. 20.4.2 PWD SR 2016-17**	Cum							
	Muneshwara Block 1st Cross		1	75.00	1.00	0.30	22.50		
	Muneshwara Block 2nd Cross		1	75.00	1.00	0.30	22.50		
	Muneshwara Block 3rd Cross		1	75.00	1.00	0.30	22.50		
	Muneshwara Block 4th Cross		1	98.00	1.00	0.30	29.40		
	Cross Road		1	40.00	1.00	0.30	12.00		
	Muneshwara Block 5th Cross		1	93.00	1.00	0.30	27.90		
							136.80	1665.26	**227808.00**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Muneshwara Block 1st Cross		1	75.00	1.00	0.15	11.25		
	Muneshwara Block 2nd Cross		1	75.00	1.00	0.15	11.25		
	Muneshwara Block 3rd Cross		1	75.00	1.00	0.15	11.25		
	Muneshwara Block 4th Cross		1	98.00	1.00	0.15	14.70		
	Cross Road		1	40.00	1.00	0.15	6.00		
	Muneshwara Block 5th Cross		1	93.00	1.00	0.15	13.95		
							68.40	5159.02	**352877.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Muneshwara Block 1st Cross		2	75.00		0.30	45.00		
	Muneshwara Block 2nd Cross		2	75.00		0.30	45.00		
	Muneshwara Block 3rd Cross		2	75.00		0.30	45.00		
	Muneshwara Block 4th Cross		2	98.00		0.30	58.80		
	Cross Road		2	40.00		0.30	24.00		
	Muneshwara Block 5th Cross		2	93.00		0.30	55.80		
	Basic Rate	293.00					**273.60**	310.58	**84975.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) Page No. 177 / Item No. 22.6.2 PWD SR 2016-17**	Cum							
	Muneshwara Block 1st Cross		1	75.00	3.50	0.125	32.81		
	Muneshwara Block 2nd Cross		1	75.00	4.00	0.125	37.50		
	Muneshwara Block 3rd Cross		1	75.00	4.00	0.125	37.50		
	Muneshwara Block 4th Cross		1	98.00	4.20	0.125	51.45		
	Cross Road		1	40.00	4.20	0.125	21.00		
	Muneshwara Block 5th Cross		1	93.00	3.50	0.125	40.69		
	Basic Rate	5197.00					**220.95**	5508.82	**1217174.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	Muneshwara Block 1st Cross		1	75.00	3.50		262.50		
	Muneshwara Block 2nd Cross		1	75.00	4.00		300.00		
	Muneshwara Block 3rd Cross		1	75.00	4.00		300.00		
	Muneshwara Block 4th Cross		1	98.00	4.20		411.60		
	Cross Road		1	40.00	4.20		168.00		
	Muneshwara Block 5th Cross		1	93.00	3.50		325.50		
	Basic Rate	90.00					**1767.60**	95.40	**168629.00**
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
	Sub Total								**2251576.00**
	KRIDL Charges @ 10%								**225158.00**
	Labour Cess @ 1%								**22516.00**
	Miscellaneous and other Charges	L/S							**750.00**
								Total	**2500000.00**
	Rupees Twenty Five Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2016-17 POW 24.10% Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

11/12
Executive Engineer
Bruhat Bangalore Mahanagara Palike
11/12 Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Five lakhs only
Head of A/c..... P-1878
Div. Ref. No. 54/17-18 Date 11/12/17
11/12
AE
EE(BTP) 11/12

Technical Sanction
Accorded For (25.00 lakh Rs).
Head of A/C. P1878
CER NO : 420 Dt:. 11/12/17
TA CE (YNK)